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RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/026,741

DATE: 02/14/2002
 TIME: 17:55:56

#2

Input Set : N:\Crf3\RULE60\10026741.txt
 Output Set: N:\CRF3\02142002\J026741.raw

SEQUENCE LISTING

ENTERED

4 (1) GENERAL INFORMATION:
 6 (i) APPLICANT: CHARNEAU, PIERRE
 7 CLAVEL, FRANCOISE
 8 BORMAN, ANDREW
 9 QUILLEN, CAROLINE
 10 GUETARD, DENISE
 11 MONTAGNIER, LUC
 12 DONJON DE SAINT-MARTIN, JACQUELINE
 13 COHEN, JACQUES
 C--> 15 (ii) TITLE OF INVENTION: NUCLEOTIDE SEQUENCES OF HIV-1 TYPE (OR
 16 SUBTYPE) ANTIGENS
 18 (iii) NUMBER OF SEQUENCES: 103
 20 (iv) CORRESPONDENCE ADDRESS:
 21 (A) ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
 22 Dunner, L.L.P.
 23 (B) STREET: 1300 I Street, N.W.
 24 (C) CITY: Washington
 25 (D) STATE: DC
 26 (E) COUNTRY: USA
 27 (F) ZIP: 20005-3315
 29 (v) COMPUTER READABLE FORM:
 30 (A) MEDIUM TYPE: Floppy disk
 31 (B) COMPUTER: IBM PC compatible
 32 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 33 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
 35 (vi) CURRENT APPLICATION DATA:
 C--> 36 (A) APPLICATION NUMBER: US/10/026,741
 C--> 37 (B) FILING DATE: 27-Dec-2001
 51 (vii) PRIOR APPLICATION DATA:
 40 (A) APPLICATION NUMBER: US 08/817,441
 41 (B) FILING DATE: 31-AUG-1998
 44 (A) APPLICATION NUMBER: PCT/FR 95/01391
 45 (B) FILING DATE: 20-OCT-1995
 48 (A) APPLICATION NUMBER: FR 9412554
 49 (B) FILING DATE: 20-OCT-1994
 52 (A) APPLICATION NUMBER: FR 9502526
 53 (B) FILING DATE: 03-MAR-1995
 55 (viii) ATTORNEY/AGENT INFORMATION:
 56 (A) NAME: Meyers, Kenneth J.
 57 (B) REGISTRATION NUMBER: 25,146
 58 (C) REFERENCE/DOCKET NUMBER: 03260.6005-00000
 60 (ix) TELECOMMUNICATION INFORMATION:

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```

61          (A) TELEPHONE: 202-408-4000
62          (B) TELEFAX: 202-408-4400
64 (2) INFORMATION FOR SEQ ID NO: 1:
66     (i) SEQUENCE CHARACTERISTICS:
67         (A) LENGTH: 23 base pairs
68         (B) TYPE: nucleic acid
69         (C) STRANDEDNESS: single
70         (D) TOPOLOGY: linear
72     (ii) MOLECULE TYPE: Other nucleic acid
73         (A) DESCRIPTION: /desc = "oligonucleotide"
76     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
78 AGTGGATWYA TAGAAGCAGA AGT                                     23
80 (2) INFORMATION FOR SEQ ID NO: 2:
82     (i) SEQUENCE CHARACTERISTICS:
83         (A) LENGTH: 20 base pairs
84         (B) TYPE: nucleic acid
85         (C) STRANDEDNESS: single
86         (D) TOPOLOGY: linear
88     (ii) MOLECULE TYPE: Other nucleic acid
89         (A) DESCRIPTION: /desc = "oligonucleotide"
92     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
94 ACTGCGCCTT CHCCTTTCCA                                         20
96 (2) INFORMATION FOR SEQ ID NO: 3:
98     (i) SEQUENCE CHARACTERISTICS:
99         (A) LENGTH: 28 base pairs
100        (B) TYPE: nucleic acid
101        (C) STRANDEDNESS: single
102        (D) TOPOLOGY: linear
104     (ii) MOLECULE TYPE: Other nucleic acid
105         (A) DESCRIPTION: /desc = "oligonucleotide"
110     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
112 GCTCTAGATG GGGATCTCCC ATGGCAGG                               28
114 (2) INFORMATION FOR SEQ ID NO: 4:
116     (i) SEQUENCE CHARACTERISTICS:
117         (A) LENGTH: 30 base pairs
118         (B) TYPE: nucleic acid
119         (C) STRANDEDNESS: single
120         (D) TOPOLOGY: linear
122     (ii) MOLECULE TYPE: Other nucleic acid
123         (A) DESCRIPTION: /desc = "oligonucleotide"
128     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
130 GCTCTAGATC AGGGAAGAAT CCCTGAGTGT                             30
132 (2) INFORMATION FOR SEQ ID NO: 5:
134     (i) SEQUENCE CHARACTERISTICS:
135         (A) LENGTH: 7 amino acids
136         (B) TYPE: amino acid
137         (C) STRANDEDNESS: single
138         (D) TOPOLOGY: linear
140     (ii) MOLECULE TYPE: peptide

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145 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
147 Cys Lys Asn Arg Leu Ile Cys
148 1 5
154 (2) INFORMATION FOR SEQ ID NO: 6:
156 (i) SEQUENCE CHARACTERISTICS:
157 (A) LENGTH: 26 amino acids
158 (B) TYPE: amino acid
159 (C) STRANDEDNESS: single
160 (D) TOPOLOGY: linear
162 (ii) MOLECULE TYPE: peptide
167 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
169 Arg Leu Leu Ala Leu Glu Thr Phe Ile Gln Asn Trp Trp Leu Leu Asn
170 1 5 10 15
172 Leu Trp Gly Cys Lys Asn Arg Leu Ile Cys
173 20 25
175 (2) INFORMATION FOR SEQ ID NO: 7:
177 (i) SEQUENCE CHARACTERISTICS:
178 (A) LENGTH: 37 amino acids
179 (B) TYPE: amino acid
180 (C) STRANDEDNESS: single
181 (D) TOPOLOGY: linear
183 (ii) MOLECULE TYPE: peptide
187 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
189 Arg Ala Arg Leu Leu Ala Leu Glu Thr Phe Ile Gln Asn Gln Gln Leu
190 1 5 10 15
192 Leu Asn Leu Trp Gly Cys Lys Asn Arg Leu Ile Cys Tyr Thr Ser Val
193 20 25 30
195 Lys Trp Asn Lys Thr
196 35
198 (2) INFORMATION FOR SEQ ID NO: 8:
200 (i) SEQUENCE CHARACTERISTICS:
201 (A) LENGTH: 6 amino acids
202 (B) TYPE: amino acid
203 (C) STRANDEDNESS: single
204 (D) TOPOLOGY: linear
206 (ii) MOLECULE TYPE: peptide
211 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
213 Ala His Pro Gln Gln Ala
214 1 5
218 (2) INFORMATION FOR SEQ ID NO: 9:
220 (i) SEQUENCE CHARACTERISTICS:
221 (A) LENGTH: 9 amino acids
222 (B) TYPE: amino acid
223 (C) STRANDEDNESS: single
224 (D) TOPOLOGY: linear
226 (ii) MOLECULE TYPE: peptide
230 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
232 Leu Trp Thr Thr Arg Ala Gly Asn Pro
233 1 5

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235 (2) INFORMATION FOR SEQ ID NO: 10:

237 (i) SEQUENCE CHARACTERISTICS:

238 (A) LENGTH: 32 amino acids

239 (B) TYPE: amino acid

240 (C) STRANDEDNESS: single

241 (D) TOPOLOGY: linear

243 (ii) MOLECULE TYPE: peptide

248 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

250 Ser Pro Arg Thr Leu Asn Ala Trp Val Lys Ala Val Glu Glu Lys Ala

251 1 5 10 15

253 Phe Asn Pro Glu Ile Ile Pro Met Phe Met Ala Leu Ser Glu Gly Ala

254 20 25 30

257 (2) INFORMATION FOR SEQ ID NO: 11:

259 (i) SEQUENCE CHARACTERISTICS:

260 (A) LENGTH: 20 amino acids

261 (B) TYPE: amino acid

262 (C) STRANDEDNESS: single

263 (D) TOPOLOGY: linear

265 (ii) MOLECULE TYPE: peptide

270 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

272 Met Leu Asn Ala Ile Gly Gly His Gln Gly Ala Leu Gln Val Leu Lys

273 1 5 10 15

275 Glu Val Ile Asn

276 20

278 (2) INFORMATION FOR SEQ ID NO: 12:

280 (i) SEQUENCE CHARACTERISTICS:

281 (A) LENGTH: 27 amino acids

282 (B) TYPE: amino acid

283 (C) STRANDEDNESS: single

284 (D) TOPOLOGY: linear

286 (ii) MOLECULE TYPE: peptide

291 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

293 Gly Pro Leu Pro Pro Gly Gln Ile Arg Glu Pro Thr Gly Ser Asp Ile

294 1 5 10 15

296 Ala Gly Thr Thr Ser Thr Gln Gln Glu Gln Ile

297 20 25

299 (2) INFORMATION FOR SEQ ID NO: 13:

301 (i) SEQUENCE CHARACTERISTICS:

302 (A) LENGTH: 30 amino acids

303 (B) TYPE: amino acid

304 (C) STRANDEDNESS: single

305 (D) TOPOLOGY: linear

307 (ii) MOLECULE TYPE: peptide

312 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

314 Ile Pro Val Gly Asp Ile Tyr Arg Lys Trp Ile Val Leu Gly Leu Asn

315 1 5 10 15

317 Lys Met Val Lys Met Tyr Ser Pro Val Ser Ile Leu Asp Ile

318 20 25 30

320 (2) INFORMATION FOR SEQ ID NO: 14:

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322      (i) SEQUENCE CHARACTERISTICS:
323          (A) LENGTH: 21 amino acids
324          (B) TYPE: amino acid
325          (C) STRANDEDNESS: single
326          (D) TOPOLOGY: linear
328      (ii) MOLECULE TYPE: peptide
333      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
335      Gln Gly Pro Lys Glu Pro Phe Arg Asp Tyr Val Asp Arg Phe Tyr Lys
336      1          5          10          15
338      Thr Lys Leu Ala Glu
339          20
341 (2) INFORMATION FOR SEQ ID NO: 15:
343      (i) SEQUENCE CHARACTERISTICS:
344          (A) LENGTH: 10 amino acids
345          (B) TYPE: amino acid
346          (C) STRANDEDNESS: single
347          (D) TOPOLOGY: linear
349      (ii) MOLECULE TYPE: peptide
354      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
356      Ser Pro Arg Thr Leu Asn Ala Trp Val Lys
357      1          5          10
359 (2) INFORMATION FOR SEQ ID NO: 16:
361      (i) SEQUENCE CHARACTERISTICS:
362          (A) LENGTH: 10 amino acids
363          (B) TYPE: amino acid
364          (C) STRANDEDNESS: single
365          (D) TOPOLOGY: linear
367      (ii) MOLECULE TYPE: peptide
372      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
374      Gly Ser Asp Ile Ala Gly Thr Thr Ser Thr
375      1          5          10
377 (2) INFORMATION FOR SEQ ID NO: 17:
379      (i) SEQUENCE CHARACTERISTICS:
380          (A) LENGTH: 14 amino acids
381          (B) TYPE: amino acid
382          (C) STRANDEDNESS: single
383          (D) TOPOLOGY: linear
385      (ii) MOLECULE TYPE: peptide
390      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
392      Gln Gly Pro Lys Glu Pro Phe Arg Asp Tyr Val Asp Arg Phe
393      1          5          10
395 (2) INFORMATION FOR SEQ ID NO: 18:
397      (i) SEQUENCE CHARACTERISTICS:
398          (A) LENGTH: 4 amino acids
399          (B) TYPE: amino acid
400          (C) STRANDEDNESS: single
401          (D) TOPOLOGY: linear
403      (ii) MOLECULE TYPE: peptide
410      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:

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VERIFICATION SUMMARY

DATE: 02/14/2002

PATENT APPLICATION: US/10/026,741

TIME: 17:55:57

Input Set : N:\Crf3\RULE60\10026741.txt

Output Set: N:\CRF3\02142002\J026741.raw

L:15 M:220 C: Keyword misspelled or invalid format, [(ii) TITLE OF INVENTION:]
L:36 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:37 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:1599 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=63
L:1702 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=64
L:2508 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91
L:2511 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91
L:2514 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91
L:2532 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:92
L:2535 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:92
L:2538 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:92
L:2595 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=95
L:2676 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=97
L:2757 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=99